



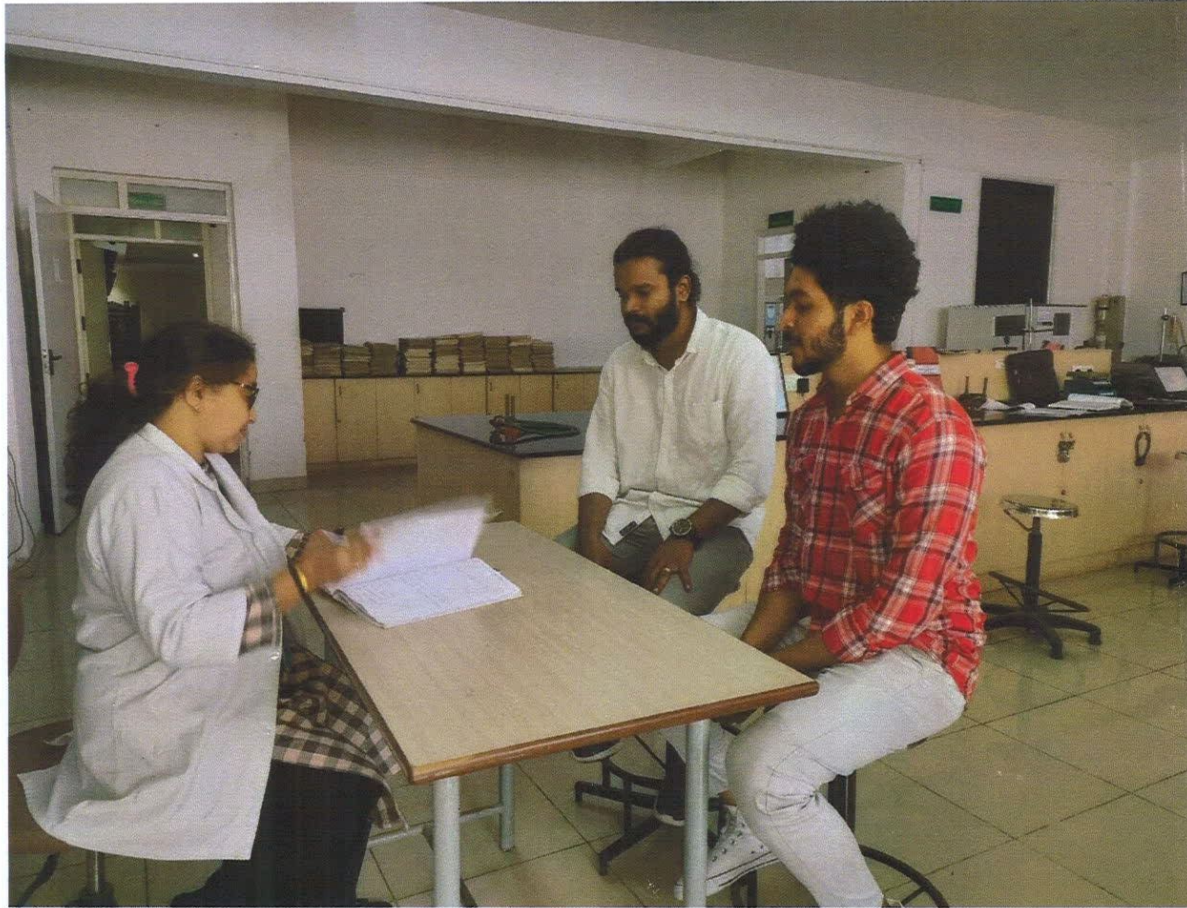
KRUPANIDHI COLLEGE OF PHARMACY

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2.3.3 Ratio of mentor to students for academic and other related issues

Sample document for Mentor-Mentee Interaction



Counselling to slow learners -



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content uniformity

For content uniformity 30 tablets are taken and at least 10 is assayed out of which 9/10 should not be \geq than ~~ex. 5%~~ of limit & loss prevented than 15%. and 10th tab should not be $< 75%$ & should not be $> 125%$. If limit is not met. repeat for minimum 20 tablets out of which none should be out of 85% - 115%.

Disintegration time.

It consist of 6 glass tubes which are 3 inch long. top is open and bottom is held against 10 mesh. The whole basket is kept in 1 l of water at $37^{\circ}\text{C} \pm 2^{\circ}\text{C}$. and the basket is connected to



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Limit their weight loss should not be more than
0.5 - 20% of the total weight.

Weight Variation

For weight variation 10 tablets are taken and
individually assayed. They may be over weight/
under weight

Weight Variation Test

20 tablets are weighed individually & average weight
is taken and their ~~weight~~ individual weights
are compared to average weights

Limit: Not more than 2 tablets should be out of
the limit and no tablet should go more than
2 times out of the limit

Weight of tablet	% difference allowed
10 or less	10



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- Pfizer tester
- Esvelia tester.
- Shlenger tester.

Monsanto tester.

It consists of a hammer which consists of a compressible spring held b/w two plungers. The lower plunger is kept in contact with the tablet and the upper plunger is forced against the spring forcing the tablet to break. The creedle connected to a gauge would record the readings.

Resiliability test

Roche's Resiliability

• It is a plastic chamber which is revolved at 25 RPM which drops the tablet at 6 inches distance. and resuspending is taken. The product drum is rotated at 100 revolutions and the ~~water~~



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offered OTC over tablets

They are classified as.

- Hardness & friability.
- Weight variation.
- Content uniformity.
- Disintegration time.

Hardness

Tablet requires some hardness to overcome resistance mechanical shocks during manufacturing and shipping.

Hardness of tablets can be tested by pressing the tablet b/w 2nd & 3rd finger and using thumb as a fulcrum.

The hardness is defined by the force required to

break the tablet. It can be done by pressing

the tablet b/w two anvils. and the hardness

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Advantages

- Not ~~using~~ ^{high} temperature
- Reduced usage of heat
- ~~increased usage of~~ ~~moisture~~.

Disadvantages

- They have \uparrow content uniformity
- They have \uparrow compressibility.
- They have \uparrow ~~stability~~ density.
- Reduced segregation.

Disadvantages

- They are time consuming, power consuming.
- Not economical.
- more labour consuming.
- increased use of moisture.


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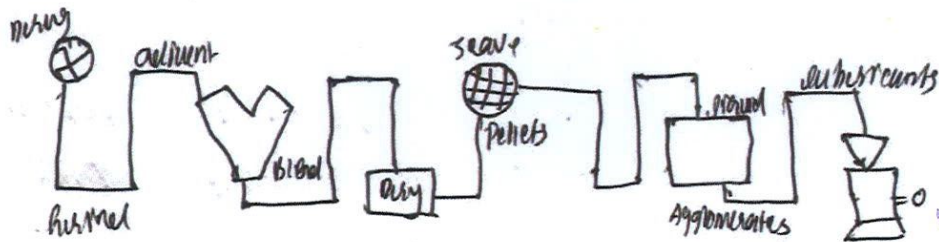
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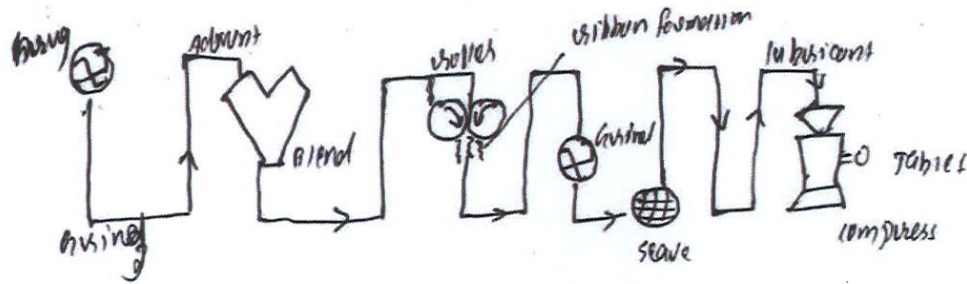
~~and passed through suitable sieve not exceeding 60 μ~~
 and are sieved ~~then~~ fines are negligible. 15% fines
 are required to ~~prepare~~ compress the tablets.
 as passed through # 8/10 for wet granulation
 and # 20 for dry granulation.

small scale

In small scale it is prepared by blending the drug
 with appropriate adjuvants and drying it and
 sieving it. then by addition of suitable liquid
 agglomerates are formed they are compressed
 along with the suitable lubricants.



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Advantages

- Less ~~moist~~ equipment space.
- No use of moisture.

Disadvantages

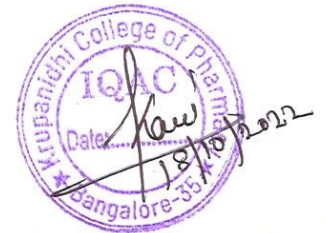
- They are time consuming.
- They are labour consuming.
- It is not economical.
- More processing steps involved.

Wet Granulation

In this process ~~the~~ ^{moisture} is added to the vessel along with the drug particles and agitated to form

with granules and then it is done

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In this method the drugs and active ingredients are triturated and blended along with adjuvants. Then they are ~~pressed~~ compressed and then are sieved through suitable mesh and particle size is adjusted so that it can pass through #20 and then they are again compressed by the addition of suitable lubricants.

Large scale.

In large scale preparation the ~~drug~~ active ingredients along with the drugs are triturated and are blended with adjuvants and are passed through roller compaction which would force our way towards each other under the influence of electric current and resulting in the formation of uniform size aggregates which is again sieved and sieved and which are compressed into tablets by addition of suitable lubricants.



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